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Alkaline battery (dis)charge improving agent - of quaternary ammonium salt contg. benzyl gp. added to anode mass and /or electrolyte

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Number of Countries: 001 Number of Patents: 001

Patent Family:

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JP 50091728	A	19750722					197712 B

Priority Applications (No Type Date): JP 73143154 A 19731219

Abstract (Basic): JP 50091728 A

Benzyl group-contg. quat. ammonium salt is added to anode active mass and/or electrolytes in alk. batteries. The additive improves the charging and discharging characteristics of batteries and extends their service life.

For example, 3.0% dodecyldimethylbenzylammonium chloride was added to a Ni-Zn alk. battery electrolyte (30% KOH). The service life of the battery was by a factor of >2 greater than that of a battery without the additive.

Derwent Class: E14; L03; X16

International Patent Class (Additional): H01M-000/00



n-alkyl dimethyl benzyl  $\text{NH}_4\text{Cl}$

dodecyl  
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12-16 c